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Sequence Listing was accepted.

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217-9197 (toll free).

Reviewer: markspencer

Timestamp: Thu Jun 28 15:48:50 EDT 2007

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Application No: 10779427 Version No: 2.0

**Input Set:****Output Set:**

**Started:** 2007-06-27 15:25:25.025  
**Finished:** 2007-06-27 15:25:26.734  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 709 ms  
**Total Warnings:** 29  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 34  
**Actual SeqID Count:** 34

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
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W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2007-06-27 15:25:25.025  
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**No. of SeqIDs Defined:** 34  
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Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> Bojsen, Kirsten  
 Svendsen, Allan  
 Fuglsang, Claus C.  
 Patkar, Shamkant Anant  
 Borch, Kim  
 Vind, Jesper  
 Petri, Andreas  
 Glad, Sanne O. Schroder  
 Budolfson, Gitte

<120> Lipolytic Enzyme Variants

<130> 5559.204-US

<140> 10779427

<141> 2004-11-22

<150> 09/856,819

<151> 2001-05-27

<150> PCT/DK99/00664

<151> 1999-12-29

<160> 34

<170> PatentIn version 3.4

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Tyr Val Gln Met Asp Lys Glu Tyr Val Lys Asn Asn Gln Ala Arg Ser  
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Ser Pro Ile Arg Arg  
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Ser Pro Pro Arg Arg Pro  
1 5

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<212> PRT  
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Trp Arg Arg Tyr Arg Ser Ala Glu Ser Val Asp Lys Arg Ala Thr Met  
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Thr Asp Ala Glu Leu Glu Lys Lys Leu Asn Ser Tyr Val Gln Met Asp  
20 25 30

Lys Glu Tyr Val Lys Asn Asn Gln Ala Arg Ser  
35 40

<210> 25

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 20 25 30

Ile Pro Gly Ala Thr Trp Asp Cys Ile His Cys Asp Ala Thr Glu Asp  
 35 40 45

Leu Lys Ile Ile Lys Thr Trp Ser Thr Leu Ile Tyr Asp Thr Asn Ala  
 50 55 60

Met Val Ala Arg Gly Asp Ser Glu Lys Thr Ile Tyr Ile Val Phe Arg  
 65 70 75 80

Gly Ser Ser Ser Ile Arg Asn Trp Ile Ala Asp Leu Thr Phe Val Pro  
 85 90 95

Val Ser Tyr Pro Pro Val Ser Gly Thr Lys Val His Lys Gly Phe Leu  
 100 105 110

Asp Ser Tyr Gly Glu Val Gln Asn Glu Leu Val Ala Thr Val Leu Asp  
115 120 125

Gln Phe Lys Gln Tyr Pro Ser Tyr Lys Val Ala Val Thr Gly His Ser  
130 135 140

Leu Gly Gly Ala Thr Ala Leu Leu Cys Ala Leu Asp Leu Tyr Gln Arg  
145 150 155 160

Glu Glu Gly Leu Ser Ser Ser Asn Leu Phe Leu Tyr Thr Gln Gly Gln  
165 170 175

Pro Arg Val Gly Asp Pro Ala Phe Ala Asn Tyr Val Val Ser Thr Gly  
180 185 190

Ile Pro Tyr Arg Arg Thr Val Asn Glu Arg Asp Ile Val Pro His Leu  
195 200 205

Pro Pro Ala Ala Phe Gly Phe Leu His Ala Gly Glu Glu Tyr Trp Ile  
210 215 220

Thr Asp Asn Ser Pro Glu Thr Val Gln Val Cys Thr Ser Asp Leu Glu  
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His Leu Ser Tyr Phe Gly Ile Asn Thr Gly Leu Cys Thr  
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Phe Thr Lys Tyr Ala Gly Ile Ala Ala Thr Ala Tyr Cys Arg Ser Val  
20 25 30

Val Pro Gly Asn Lys Trp Asp Cys Val Gln Cys Gln Lys Trp Val Pro  
35 40 45



Asp Gly Lys Ile Ile Thr Thr Phe Thr Ser Leu Leu Ser Asp Thr Asn  
50 55 60

Gly Tyr Val Leu Arg Ser Asp Lys Gln Lys Thr Ile Tyr Leu Val Phe  
65 70 75 80

Arg Gly Thr Asn Ser Phe Arg Ser Ala Ile Thr Asp Ile Val Phe Asn  
85 90 95

Phe Ser Asp Tyr Lys Pro Val Lys Gly Ala Lys Val His Ala Gly Phe  
100 105 110

Leu Ser Ser Tyr Glu Gln Val Val Asn Asp Tyr Phe Pro Val Val Gln  
115 120 125

Glu Gln Leu Thr Ala His Pro Thr Tyr Lys Val Ile Val Thr Gly His  
130 135 140

Ser Leu Gly Gly Ala Gln Ala Leu Leu Ala Gly Met Asp Leu Tyr Gln  
145 150 155 160

Arg Glu Pro Arg Leu Ser Pro Lys Asn Leu Ser Ile Phe Thr Val Gly  
165 170 175

Gly Pro Arg Val Gly Asn Pro Thr Phe Ala Tyr Tyr Val Glu Ser Thr  
180 185 190

Gly Ile Pro Phe Gln Arg Thr Val His Lys Arg Asp Ile Val Pro His  
195 200 205

Val Pro Pro Gln Ser Phe Gly Phe Leu His Pro Gly Val Glu Ser Trp  
210 215 220

Ile Lys Ser Gly Thr Ser Asn Val Gln Ile Cys Thr Ser Glu Ile Glu  
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Asn Ile Thr Cys Thr Gly Asn Ala Cys Pro Glu Val Glu Lys Ala Asp  
35 40 45

Ala Thr Phe Leu Tyr Ser Phe Glu Asp Ser Gly Val Gly Asp Val Thr  
50 55 60

Gly Phe Leu Ala Leu Asp Asn Thr Asn Lys Leu Ile Val Leu Ser Phe  
65 70 75 80

Arg Gly Ser Arg Ser Ile Glu Asn Trp Ile Gly Asn Leu Asn Phe Asp  
85 90 95

Leu Lys Glu Ile Asn Asp Ile Cys Ser Gly Cys Arg Gly His Asp Gly  
100 105 110

Phe Thr Ser Ser Trp Arg Ser Val Ala Asp Thr Leu Arg Gln Lys Val  
115 120 125

Glu Asp Ala Val Arg Glu His Pro Asp Tyr Arg Val Val Phe Thr Gly  
130 135 140

His Ser Leu Gly Gly Ala Leu Ala Thr Val Ala Gly Ala Asp Leu Arg  
145 150 155 160

Gly Asn Gly Tyr Asp Ile Asp Val Phe Ser Tyr Gly Ala Pro Arg Val  
165 170 175

Gly Asn Arg Ala Phe Ala Glu Phe Leu Thr Val Gln Thr Gly Gly Thr  
180 185 190

Leu Tyr Arg Ile Thr His Thr Asn Asp Ile Val Pro Arg Leu Pro Pro

195

200

205

Arg Glu Phe Gly Tyr Ser His Ser Ser Pro Glu Tyr Trp Ile Lys Ser  
 210 215 220

Gly Thr Leu Val Pro Val Thr Arg Asn Asp Ile Val Lys Ile Glu Gly  
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 20 25 30

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 35 40 45

Ala Thr Val Ser Tyr Asp Phe Ser Asp Ser Thr Ile Thr Asp Thr Ala  
 50 55 60

Gly Tyr Ile Ala Val Asp His Thr Asn Ser Ala Val Val Leu Ala Phe  
 65 70 75 80

Arg Gly Ser Tyr Ser Val Arg Asn Trp Val Ala Asp Ala Thr Phe Val  
 85 90 95

His Thr Asn Pro Gly Leu Cys Asp Gly Cys Leu Ala Glu Leu Gly Phe  
 100 105 110

Trp Ser Ser Trp Lys Leu Val Arg Asp Asp Ile Ile Lys Glu Leu Lys  
 115 120 125

Glu Val Val Ala Gln Asn Pro Asn